

**AMENDMENTS TO THE CLAIMS**

**This listing of claims will replace all prior versions and listings of claims in the application:**

**LISTING OF CLAIMS:**

1. (currently amended): A method of optimizing the performance of a mobile radio system in which different transfer modes correspond to different bit rates corresponding to different modulation schemes and the protocol architecture uses a radio link control layer that can operate in an acknowledged mode or in a non-acknowledged mode, in which method, in a transfer mode corresponding to the highest bit rates, acknowledgment information is sent in the non-acknowledged mode from a radio link control receiver to a radio link control sender and can be taken into account by the radio link control sender,

wherein said transfer modes include the General Packet Radio Service (GPRS) mode and the Enhanced General Packet Radio Service (EGPRS) mode, and

wherein said acknowledgment information includes a Starting Sequence Number (SSN) and a Received Block Bitmap (RBB) sent in an acknowledgment/non-acknowledgment (ACK/NACK) message.

2 and 3.(canceled).

4. (previously presented): A method according to claim 1, wherein said acknowledgment information is taken into account by an RLC sender to estimate transmission quality.

5. (original): A method according to claim 4, wherein said transmission quality estimate is used for radio link adaptation.

6. (previously presented): A mobile station including means for implementing a method according to claim 1.

7. (previously presented): Mobile radio network equipment, including means for implementing a method according to claim 1.

8. (previously presented): A mobile radio system including means for implementing a method according to claim 1.

9. (previously presented): A method of claim 1, wherein the non-acknowledged mode is General Packet Radio Service (GPRS) mode or Temporary Block Flow (TBF) mode.

10. (currently amended): A mobile station comprising:  
a radio link control (RLC) transmitter which receives acknowledgement/non- acknowledgement (ACK/NACK) messages transmitted by an RLC receiver, said messages comprising a start sequence number (SSN) and a received block bitmap (RRB); and  
~~a-mean means~~ for, in a transfer mode corresponding to Enhanced General Packet Radio Service (EGPRS), taking into account SSN and RRB information transmitted in a non- acknowledged mode.

11. (currently amended): A mobile radiocommunication network equipment comprising:

a radio link control (RLC) transmitter which receives acknowledgement/non- acknowledgement (ACK/NACK) messages transmitted by an RLC receiver, said messages comprising a start sequence number (SSN) and a received block bitmap (RRB); and

a ~~mean~~means for, in a transfer mode corresponding to Enhanced General Packet Radio Service (EGPRS), taking into account SSN and RRB information transmitted in a non-acknowledged mode.